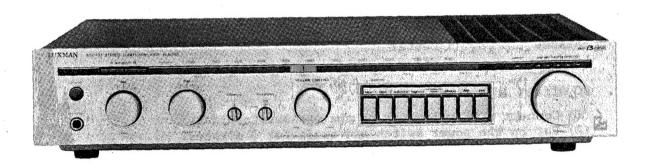


SERVICE MANUAL MANUAL RAM/FM Tuner-Amplifier R-5030





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Receiver Alignment Procedures

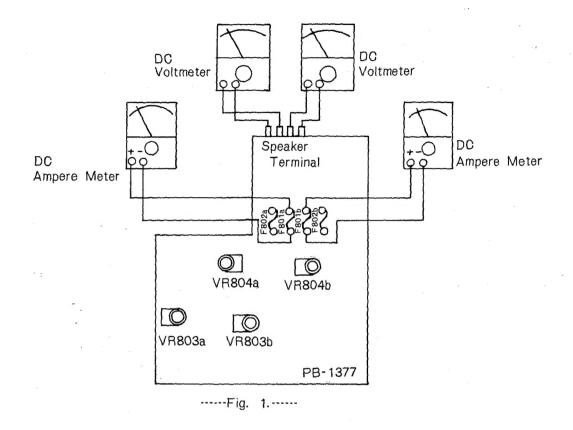
This unit was already aligned at the factory prior to shipment but in case that re-alignment is necessary for any reasons such as replacement of the front-end, etc., please make alignment with the following procedures:

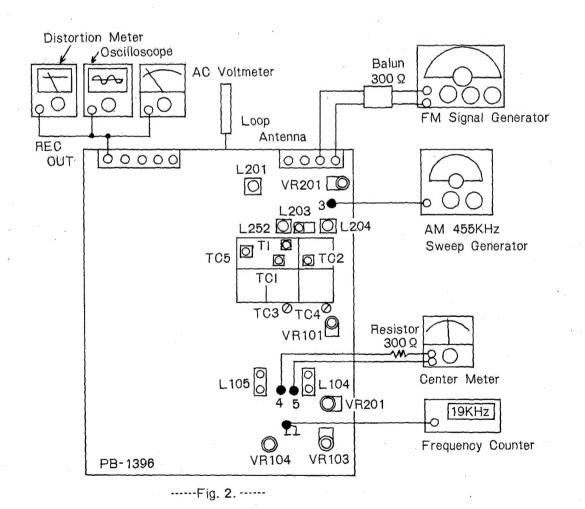
Audio Section Alignment

1. Set the switches of this unit as follows:

Volume Control : Minimum
Tone Control : Flat
Speaker Selector : A
Balance : Center
Loudness : Off

- 2. DC Offset Adjustment
 - (1) Connect a DC voltmeter to the speaker terminals.
 - (2) Put on the power switch and await for 3 minutes.
 - (3) Adjust the semi-fixed resistors, VR803a (L-ch) and VR803b (R-ch) on the PB-1377 to make the DC voltmeter connected to the speaker terminals read OV.
- Idling Current Adjustment
 - (1) Put off the power switch.
 - (2) Remove the fuses, F801a (L-ch) and F801b (R-ch) from the PB-1377 and connect an DC voltmeter to the terminals. (Be careful about the right connection to the positive and negative terminals of the DC voltmeter. See Fig. 1.)
 - (3) Put on the power switch and await for 3 minutes.
 - (4) Adjust the semi-fixed resistors, VR804a (L-ch) and VR804b (R-ch) on the PB-1377 to make the DC voltmeter connected to the fuse terminals read 50mA.







AM Alignment

1. Set the switches of this unit as follows:

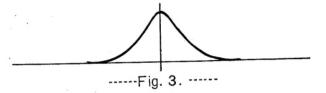
: Off Subsonic Off High Cut Mono Off Off Tape • On AM

2. AM IF Adjustment

(1) Connect a 455KHz sweep generator to No. 3 terminal on the PB-1396. (See Fig. 2.)

(2) Connect a AC voltmeter and on oscilloscope to REC OUT.

(3) Adjust the IF coils, L203 and L204 to make the AC voltmeter read maximum and also to make the wave form on the oscilloscope ideal. (See Fig. 3.)



(4) Disconnect the 455KHz sweep generator.

3. AM Tracking and Sensitivity Adjustment

(1) Set the loop antenna of this unit at a right angle to the rear panel.

(2) Set an AM signal generator at 50cm away from the center of the loop antenna.

(3) Make output of the AM signal generator at 1,400KHz and set the dial pointer at 1,400KHz on the dial scale by the tuning knob. Adjust the local oscillator trimmer capacitor, TC2 and the trimmer capacitor for sensitivity adjustment, TC1 to make REC OUT output maximum.

(4) Make output of the AM signal generator at 600KHz and set the dial pointer at 600KHz on the dial scale by the tuning knob. Adjust the local oscillator trimmer coil on PB-1396, L252 and the trimmer coil for sensitivity adjustment, L201 to make REC OUT output maximum.

(5) Repeat adjustment as per the foregoing step, (3) & (4) for a few times and

confirm that the tracking meets as rated.

AM Strength Adjustment

(1) Make output of the AM signal generator 100dB/m, 1,000KHz and make this unit receive the foregoing 1,000KHz.

(2) Adjust the semi-fixed resistor on the PB-1396, VR201 to make all of 5 signal strength L.E.D.'s light up.

FM Alignment

Set the switches of this unit as follows:

Low Cut Off Off : High Cut Off : Tape Mono : 0n FMOn

2. FM IF Adjustment

- (1) Connect an FM signal generator to the 300-ohm FM antenna terminal of this unit through the 300-ohm balun.
- (2) Connect the center meter through the 300-ohm resistor to the terminal Nos. 4 & 5 on the PB-1396. (See Fig. 2.)
- (3) Connect an AC voltmeter, an oscilloscope and a distortion meter to REC OUT of this unit. (See Fig. 2.)
- (4) Make this unit receive at the tuning point where no station is available and adjust the IF primary coil, L104 on the PB-1396 to make the center meter read 0 (zero).
- (5) Make output of the FM signal generator 98MHz, modulation 1KHz and 100% monaural, 60dB.
- (6) Tune this unit at ± 0 on the center meter with the signal specified in the foregoing step (5).
- (7) Adjust the IF secondary coil, L104 on the PB-1396 to make distortion minimum.
- (8) Repeat adjustment as per the foregoing steps, (4)-(7) for a few times and confirm that the specs meet.

3. FM Tracking and Sansitivity Adjustment

- (1) Make output of an FM signal generator 108MHz, 6 dB and set the dial pointer at 108MHz on the dial scale by the tuning knob. Adjust the local oscillator trimmer capacitor, TC5 and the trimmer capacitor for sensitivity adjustment, TC3 and TC4 to make output maximum.
- (2) Set the unit at 88MHz on the dial scale and activate the FM signal generator to make the center meter read 0 (zero).

4. FM Signal Strength Adjustment

- (1) Make output of an FM signal generator 98MHz, 60dB and tune this unit at +0 on the center meter.
- (2) Adjust the semi-fixed resistor, VR102 on the PB-1396 to make all of 5 signal strength L.E.D.'s light up.

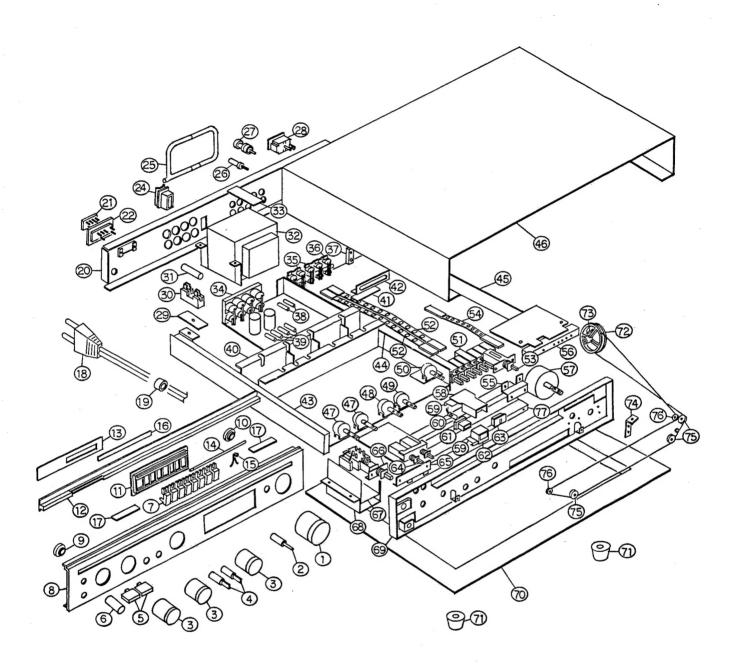
5. FM MPX and Muting Adjustment

- (1) Connect a frequency counter to the terminal No. 11 on the PB-1396.
- (2) Make output of an FM signal generator 60dB, modulation 0 (zero).
- (3) Put off the mono switch.
- (4) Adjust the semi-fixed resistor, VR104 on the PB-1396 to make frequency 19KHz+0

-10Hz.

- (5) Make output of the FM signal generator 12dB, modulation 1KHz 100% monaural.
- (6) Turn the semi-fixed resistor, VR101 on the PB-1396 to the endmost of the counter-clockwise position to confirm that no signal appears and then, turn the semi-fixed resistor, VR101 clockwise and adjust it to make signal come out.
- (7) Put on the mono switch.
- (8) Make output of the FM signal generator 60dB.
- (9) Confirm that the center meter read 0 (zero) and if it is slipped out, adjust the IF primary coil, L104 on the PB-1396.
- (10) Make output of the FM signal generator 60dB.
- (11) Confirm that distortion is minimum. If it is slipped out, adjust the IF secondary coil, L104 on the PB-1396.
- (12) Confirm the foregoing steps (9)-(13) and repeat adjustment unless those would not meet rated specs.
- (13) Make the FM signal generator at stereo modulation.
- (14) Put off the mono switch.
- (15) Adjust the semi-fixed resistor, VR103 on the PB-1396 to make stereo separation both at right and left channels well balanced.
- (16) Adjust the IF coil of the frontend, T1 to make stereo distortion minimum.
- (17) Confirm the steps (6)-(16) and repeat adjustment unless those would not meet rated steps.

EXPLODED VIEW R-5030



Exploded View Parts List

Remarks:

U: 120V for North America (With C.A.T. Switch)

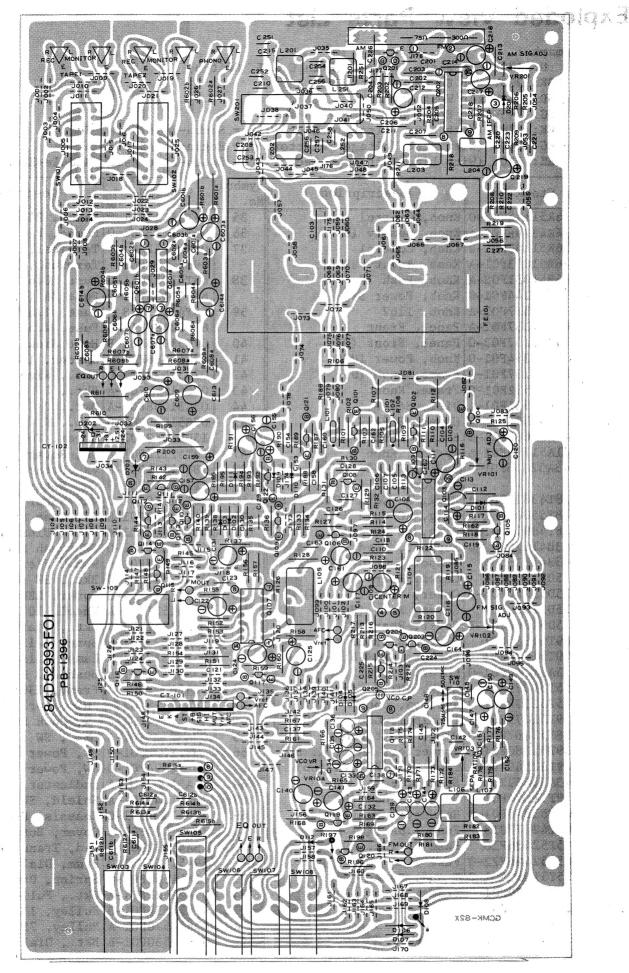
SK: 220V for Europe, South-East Asia SD: 220V for West Germany SG: 240V for England, Australia

TEK: 220V (With Line Voltage Selector) for South-East Asia, Europe

E+EG: 240V (With Line Voltage Selector) for England, Australia

LEZ: 120V (With Line Voltage Selector) for South-East Asia, Middle-East Asia

Symbo1	- 1 1T	D	Symbo1	Stock No.	Description
No.	Stock No.	Description	No.		
1	36R51142F02-0		35	09T51123F01-0	
2		Knob, Memory (U)	36		Phono, Plate 2P
3	36R51143F01-0	Knob, Control	37		Terminal, ANT
4	36B51053F01-A	Knob, Rotary VR.			Terminal, ANT 2P (SD)
5	36B51051F03-A	Knob, Push 17	38		Fuse, 0.63AT (S)
6	36R51144F01-0	Knob, Power SW			Fuse 2A (E, U)
7	36B51517F01-A	Knob, 1167	39		Fuse, 1.6AT (S)
8	64D51137F02-A	Panel, Front		65T52486F19-0	Fuse, 2.5A (E, U)
	64D51137F03-0	Panel, Front (U)	40	07C51055F01-B	
9	07R47364F01-0	Knob, Power 1089	41	43A52566F01-0	Spacer, 1165
10	07R51137F01-0	Frame, Knob (U)	42	07A51524F01-0	Bkt., Wire
11	07C51532F01 -C		43	07C51057F01-A	Bkt., L
12	34B51531F01-A		44	05C51058F01-A	Bkt., C
13	15A51518F01-A	The state of the s	45	07C51059F02-0	Bkt., R
14	47A51682F01-0		46	15D51063F01-A	Cover, Top
15	The state of the s	Spring, Knob	47	18T51112F01-0	VR, Rotary 50KCx2
16	43A52336F01-0		48	18T51111F01-0	VR, Rotary 250KMN
17		Non Use	49		VR, Rotary 100KAx2
18	28T43812P02-A	Plug, AC Cord (SK, EK, SD)			VR, Rotary 100KBx2
		Plug, AC Cord (SG, EG)	51		SW, Push SUFR8P
		Plug, AC Cord (EZ, U)	52		Wire, Flex SWR1234
19		Support, Cord	53		SW, Push SUFR1P (U)
	43B41625J04	Support, Cord (SG, EG)	54		Wire, Flex SWR1144 (U)
20	15D51060F05	Cover, Rear (SD)	55	07A51526F01-0	
	11.00	Cover, Rear (SK, SG)	56	15A51519F01-C	
	15D51060F07	Cover, Rear (E)	57	49A51521F01-A	
		Cover, Rear (U)	58	07A51851F01-0	
21		Plug, SW P2120 (E)	59	43A51523F01-B	
22	09T51831F01	Socket, SW M1615 (E)	60		Lamp, Pilot 12V75mA
23		Cover, 1101 (E)	61		Bushing, Rubber
24		Lock, ANT Holder	62	07A51527F01-C	
25		Antenna, Loop	63		Indicator, Scale
26		Terminal, GND	64		SW, Push SUL2
27		Plug, Short Phono	65	07A51525F01-A	1
28		Connector, ANT (SK, SG)	66		SW, Power SDU4PS(E, S)
	£ .	Plug, ANT P2132A (SD)			SW, Power (U)
29	43A51453F01-0		67		Indicator, Power SW
30		Holder, Fuse (S)	68	26A51041F01-A	
30		Holder, Fuse (E,U)	69		Chassis, Front
31	65T42077U18	Fuse 1.6AT (S)	70		Cover, Bottom
J.	65T52486F18	Fuse 2A (EK, EG)	71		Pad, Trannleg
		Fuse 3.5A (EZ, U)	72	49A51551F01-0	
32		Trans, Power (S)	73		Spring, Drum
34	25T51829F01	Trans, Power (E)	74		Bkt., Pulley
		Trans, Power (U)	75	49A51550F01-0	
33	43A51798F01-0		76	49A51576F01-A	
34	09T51101F01-0		77	07B51530F01-B	
	O DI DITOTE OI-0	Terminar, br	1/	Q L D ST S 3 OF OT - P	DRC., Diar



PB-1396 Parts List

Symbo1			Symbo1	T	<u> </u>		
No.	Stock No.	Description	No.	Stock No.	Desc	ription	
(Trans:	istor & IC)		L203	24T51126F01-0	Trans. IF	(450KHz)
Q101	48T47524F01	Tr, 2SC1923	L204	24T51543F01-0			
Q102	48T47524F01	Tr, 2SC1923		Fixed Resistor			
Q103	51T51095F01-0	IC, LA1235		18C42061J22-A			.
Q104	48T43525F02	Tr, 2SC1815Y	11	18C42061J14-0			
Q105	48T43525F02	Tr, 2SC1815Y	11	18C42061J17-B			
Q106	48T43525F02	Tr, 2SC1815Y (U)		18C41732G03-L			
Q107	51T51696F01-0	IC, TC4016BP (U)		18C42061J14-0			
Q108	48T43525F02	Tr, 2SC1815Y (U)	(Switch				
Q109	48T43525F02	Tr, 2SC1815Y (U)		40T51964F01-0	SW. Slide	<u> </u>	
	48T51118F01	Tr, 2SA1015Y (U)		40T51964F01-0			
Q111	48T51118F01	Tr, 2SA1015Y (U)		40T51535F01-0			
Q112	48T43525F02	Tr, 2SC1815Y (U)		40T52097F01-0			
Q113	48T43525F02	Tr, 2SC1815Y (U)				22352D (1	J)
Q114	48T51118F01	Tr, 2SA1015Y (U)	(Fronte	end)			
Q115	48T43525F02	Tr, 2SC1815Y (U)		77T51544F01-0	FF212U81		
Q116	48T43525F02	Tr, 2SC1815Y (U)	(Resist				
Q117	48T43525F02	Tr, 2SC1815Y		06S44593P57	470 1/4	WV Rd	,
Q118	51T51094F01-0	IC, uPC1235C	1 1	06S44593P75		WV Rd	
Q119	48T43525F02	Tr, 2SC1815Y		06S44593P41		WV Rd	
Q120	48T43525F02	Tr, 2SC1815Y	1	06S44593P41		WV Rd	(U)
Q121	48T47524F01	Tr, 2SC1923	1	06S44593P53		WV Rd	(0)
Q122	48T43525F02	Tr, 2SC1815Y		06S44593P41	100 1/4		
Q202	51T51096F01-0	IC, LA1240	1 1	06S44593P41	100 1/4		
Q203	48T43525F0 2	Tr, 2SC1815Y	1	06S44593P57		WV Rd	
Q204	48T43525F02	Tr, 2SC1815Y		06S44593P75	2.7K 1/4		
Q205	48T51118F01	Tr, 2SA1015Y		06S44593P57	470 1/4		
Q60la,b	51T51093F01-0	IC, M5213L		06S44593P53	330 1/4		
(Diode)				06S44593P41	100 1/4		
D101	48T51087F01	KB265C4 Varistor	1 1	06S44593P53	330 1/4		
D102	48B41768G01	1N60 Silicon		06S44594P06	47K 1/4		
D103	48B41768G01	1N60 Silicon	1	06S44593P89	10K 1/4		
D104	48T51881F01	DS442-BT Silicon		06S44594P12	82K 1/4		
D105	48T51881F01	DS442-BT Silicon		06S44594P06	47K 1/4		
D106	48T51881F01	DS442-BT Silicon	1	06S44593P33	47 1/4		
D107	48T51881F01	DS442-BT Silicon		06S44593P83	5.6K 1/4		
D108	48T51881F01	DS442-BT Silicon	1 1	06S44593P73	2.2K 1/4		
D109	48B41768G01	1N60 Silicon	1 1	06S44593P99	27K 1/4		
D110	48B41768G01	1N60 Silicon	1	06S44593P49	220 1/4		
D111	48T41768G01	1N60 Silicon	1	06S44593P83	5.6K 1/4		
	48T51881F01	DS442-BT Silicon	1 1	06S44593P49	220 1/4		(U)
D201	48T51087F01	KB265C4 Varistor		06S44593P81	4.7K 1/4		(- /
D202	48T40150U65	HZ12B-2 Zener		06S44593P89	10K 1/4		(U)
(Coil)			1		4.7K 1/4		(U)
		Filter, Ser. SFE10.7MM	R128	06S44593P89	10K 1/4		
		Filter, Ser. SFE10.7MM	R129	06S44593P65	1K 1/4		
L103	91T51131F01-0	Filter, Ser. SFE10.7ML	- 1	06S44593P97	22K 1/4		(U)
L104	24T51128F01-0			06S44593P97	22K 1/4		(U)
		Filter, Anti Birdy		06S44593P73	2.2K 1/4		(U)
L106	91T51124F01-0	Filter, MPX			1.8K 1/4		(U)
	91T51124F01-0				8.2K 1/4		(U)
L201	24T51125F01-0	Trans, ANT. (AM)		1	1K 1/4		(U)
		Trans, AM LUX-1073		06S44593P77	3.3K 1/4		(U)
	<u>-</u>		1 1130		2.3K T/c	7.7.V IXG	(0)

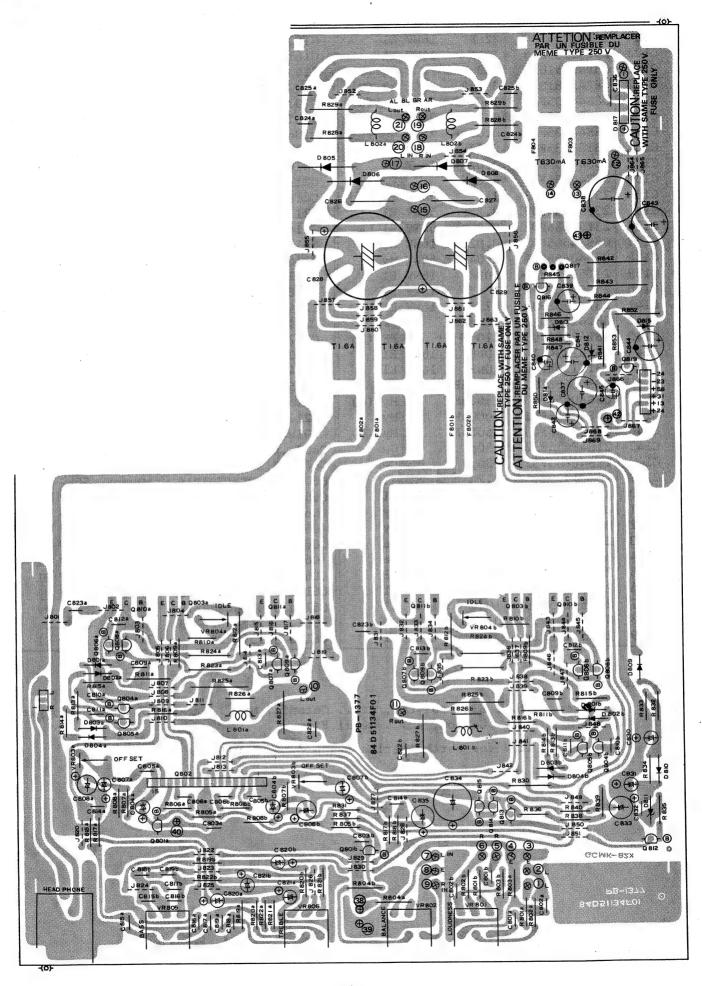
						<u> </u>	
Symbol No.	Stock No.	Descrip	otion	Symbol No.	Stock No.	Descrip	tion
R137	06S44594P14	100K 1/4WV	Rd (U)	R197	06S44593P91	12K 1/4WV	Rd
R138	06S44593P89	100K 1/4WV	Rd (U)	R198	06S44594P22	220K 1/4WV	Rd
R139	06S44593P81	4.7K 1/4WV	Rd (U)	R199	06T51108F12	680 2WV	Rm
R140	06S44594P06	47K 1/4WV	Rd (U)	R200	06T51108F23	560 2WV	Rm
1	06S44593P97			R201	06S44593P49	220 1/4WV	Rd
R141				R204	06S44593P69	1.5K 1/4WV	Rd
R142	06S44593P97		Rd (U)	R205	06S44593P89	10K 1/4WV	Rd
R143	06S44594P06	47K 1/4WV	Rd (U)	R206	06S44593P89	10K 1/4WV	Rd
R144	06S44593P97	22K 1/4WV	Rd (U)	R207	06S44593P53	330 1/4WV	Rd
R145	06S44594P06	47K 1/4WV	Rd (U)			100 1/4WV	Rd
R146	06S44594P06	47K 1/4WV	Rd (U)	R208	06S44593P41		Rd
R147	06S44593P89	10K 1/4WV	Rd (U)	R209	06S44593P77	3.3K 1/4WV	Rd
R148	06S44593P97	22K 1/4WV	Rd (U)	R210	06S44593P81	4.7K 1/4WV	1
R149	06S44593P89	10K 1/4WV	Rd (U)	R211	06S44593P49	220 1/4WV	Rd
R150	06S44593P67	1.2K 1/4WV	Rd (U)	R212	06S44593P85	6.8K 1/4WV	Rd
R151	06S44594P06	47K 1/4WV	Rd (U)	R213	06S44594P10	68K 1/4WV	Rd
R152	06S44594P18	150K 1/4WV	Rd (U)	R214	06S44593P41	100 1/4WV	Rd
R153	06S44593P89	10K 1/4WV	Rd (U)	R215	06S44594P14	100K 1/4WV	Rd
R154	06S44594P24	270K 1/4WV	Rd (U)	R216	06S44593P79	3.9K 1/4WV	Rd
R155	06S44594P14	100K 1/4WV	Rd (U)	R217	06S44593P81	4.7K 1/4WV	Rd
R156	06S44594P14	100K 1/4WV	Rd (U)	R218	06S44593P83	5.6K 1/4WV	Rd
R157	06S44593P89	10K 1/4WV	Rd (U)	R219	06S44593P65	1K 1/4WV	Rd
R158	06S44593P89	10K 1/4WV	Rd	R601a,b	06D40801G75	3.3K 1/2WV	Rd
R159	06S44593P49	220 1/4WV	Rd	R602a,b	06S44594P10	68K 1/4WV	Rd
R160	06S44593P77	3.3K 1/4WV	Rd	R603a,b	06S44594P22	220K 1/4WV	Rd
R161	06S44594P06	47K 1/4WV	Rd	R604a,b	06S44594P53	330 1/4WV	Rd
R162	06S44593P93	15K 1/4WV	Rd			220K 1/4WV	Rd
R163	06S44593P89	10K 1/4WV	Rď	R606a,b		18K 1/4WV	Rd
R164	06S44594P14	100K 1/4WV	Rd		06S44593P57	470 1/4WV	Rd
R165	06S44593P93	15K 1/4WV	Rd	R608a,b	06D40801G63	1K 1/2WV	Rd
R166	06S44593P65	1K 1/4WV	Rd	R609a,b	06S44594P22	220K 1/4WV	Rd
R167	06S44593P67	1.2K 1/4WV	Rd	R610	06T51108F17	680 1/2WV	Rd
R168	06S44593P77	3.3K 1/4WV	Rd	R611	06T51108F17	680 1/2WV	Rd
R169	06S44593P97	22K 1/4WV	Rd	R612a,b	06S44594P38	1M 1/4WV	Rd
R170	06S44593P97	22K 1/4WV	Rd			3.3K 1/4WV	Rd
R171	06S44593P97	22K 1/4WV	Rd			1M 1/4WV	Rd
R172	06S44593P83	5.6K 1/4WV	Rd		06S44593P85	6.8K 1/4WV	Rd
R173	06S44593P83	5.6K 1/4WV	Rd	(Capac			
R174	06S44594P06	47K 1/4WV	Rd	C101	08S44505P63	0.022µF 16WV	1
R175	06S44594P06	47K 1/4WV	Rd	C102	08S44505P63	0.022µF 16WV	
R176	06S44593P67	1.2K 1/4WV	Rd	C103	08S44505P63	0.022μF 16WV	
R177	06S44593P67	1.2K 1/4WV	Rd	C104	08S44505P63	0.022μF 16WV	or a
R178	06S44593P65	1K 1/4WV	Rd	C105	08S44505P63	0.022µF 16WV	
R179	06S44593P65	1K 1/4WV	Rd	C106	08S44505P63	0.022µF 16WV	
R180	06S44593P81	4.7K 1/4WV	Rd	C107	08S44505P63	0.022µF 16WV	
R181	06S44593P49	220 1/4WV	Rd	C108	23T51235F16	10µF 16WV	
R182	06S44593P81	4.7K 1/4WV	Rd	C109	23T51235F01	0.47µF 50WV	
R183	06S44593P49	220 1/4WV	Rd	C110	08S44505P63	0.022µF 16WV	
R184	06S44593P41	100 1/4WV	Rd	C111	23T51235F01	0.47µF 50WV	
R185	06S44594P02	33K 1/4WV	Rd	C112	08S44505P63	0.022µF 16WV	
R186	06S44593P65	1K 1/4WV	Rd	C113	23T51235F01	0.47µF 50WV	1
R187	06S44594P26	330K 1/4WV	Rd	C114	08S44505P63	0.022µF 16WV	
R188	06S44593P77	3.3K 1/4WV	Rd	C115	23T51235F44	100µF 16WV	1
R189	06S44594P14	100K 1/4WV	Rd	C116	08S44505P63	0.022µF 16WV	
R190	06S44593P75	2.7K 1/4WV	Rd	C117	23T51235F08		E1
R191	06S44594P06	47K 1/4WV	Rd	C118	21S40655F23	100pF 50WV	
R192	06S44594P30	470K 1/4WV	Rd	C119	08S44505P63	0.022µF 16WV	
R193	06S44593P77	3.3K 1/4WV	Rđ	C120	23T51235F01	0.47µF 50WV	
R194	06S44594P14	100K 1/4VW	Rd	C121	23T51235F16		E1 (U)
R195	06S44594P02	33K 1/4WV	Rd	C122	23T51235F03		E1 (U)
R196	06S44593P97	22K 1/4WV	Rd	C123	08S40856F21	0.047 UF 50WV	My (U)

Symbo1	Stock No.	Doggs	riptio			Symbol	Stock No.	Desci	intic	nn	
No.						No.					
C124	23T51235F24	22μF	16WV			C160	08S44505P63	0.022µF			
C125	23T51235F16	10 UF	16WV			C161	23T51235F44	100 µF	16WV		
C126	08T42081U15	390pF		PP	(U)	C162	08S44505P63		16WV		
C127	08T42081U15	390pF		PP	(U)	C202	08S44505P63	0.022µF			
C128	08S44505P49	1000pF	50WV			C203	08S44505P63	0.022µF			
C129	21C45322G33	0.047µF			(U)	C205	08S44505P63	0.022µF			
C130	08S44505P61	0.01µF	25WV		(U)	C206	08S44505P63	0.022µF			
C131	23T51235F01	0.47µF	50WV	E1	(U)	C207	08S44505P63	'	16WV		
C132	08S44505P63	0.022µF	16WV			C210	21S40655F13	15pF		Ce	
C133	08T4448 1 F05	470pF		PP		C211	08S44505P63	0.022µF			
C134	23T51235F03	1µF	50WV	E1		C212	23T51235F38	47µF	16WV		
C135	23T51234F07	3.3µF	50WV	E1		C213	08S44505P63		16WV		
C136	23T51236F02	0.22µF	50WV	E1	LR	C214	08S44505P63		16WV		
C137	08S44505P63	0.022µF	16WV	Ce		C215	21S40655F06	5pF	50WV		
C138	08S40656F21	0.047µF	50WV	Му		C216	23T51235F16	10µF	16WV		
C139	23T51235F16	10µF	16WV	E1		C217	23T51235F13	4.7µF	50WV		
C140	23T51235F16	10μF	16WV	E1		C218	08S44505P49	1000pF	50WV		
C141	23T51235F38	47µF	16WV	E1		C219	23T51235F38	47µF	16WV	E1	
C142	08T42081U19	100pF		PP		C221	08S44505P63	0.022µF			
C142	08T42081U03	120pF		PP	(U)	C212	23T51236F02	0.22µF	50 WV	E1	LR
C143	23T51234F14	10µF	16WV	E1		C213	08S44505P63	0.022µF	16WV		
C144	23T51235F16	10µF	16WV	E1		C214	08S44505P61	0.01µF	25WV	Ce	
C145	08S40656F01	1000pF		Му		C215	08S44505P61	0.01µF	25WV		
C145	08S40656F03	1500pF		Му	(U)	C216	08S44505P63	0.022µF	16WV	Ce	
C146	08S40656F01	1000pF		Му		C217	08S44505P63	0.022µF	16WV	Ce	
C146	08S40656F03	1500pF		Му	(U)	C601a,b	21S40655F30	470pF	50WV	Ce	
C147	21S40655F32	680pF		Ce		C602a,b		47pF		Ce	
C148	21S40655F32	680pF		Ce		C603a,b	23T51236F06	2.2μF	50WV	E1	LR
C149	23T51235F05	2.2µF	50WV	E1			08S44505P49	1000pF	50WV	Ce	
C150	23T51234F05	2.2µF	50WV	E1			08S40656F14	0.012µF	50 W V	My	
C151	08S40656F11	6800pF	50WV	My		C606	08S40656F08	3900pF	50WV	Му	
C152	08S40656F11	6800pF	50WV	-		C607	23T51236F05	1μF	50 WV	E1	LR
C153	21S40655F23	100pF	50WV	-		C608	21S40655F23	100pF	50WV	Ce	
C154	08S44505P49	1000pF		Ce		C609	23T51234F54	220µF	25WV	E1,	
C155	23T51235F01	0.47μF	50WV			C610	23T51234F54	220µF	25WV	E1	
C156	23T51235F03	1μF	50WV			C611a,b	1	0.12µF	50WV	Му	
C157	23T51235F16	10µF	16WV			C612a,b		5600pF	50WV	Му	
C158	08S44505P63	0.022μF	16WV			C613	21C45322G33	0.047µF	25WV	Ce	
C159	23T51235F16	10µF	16WV			C614a,b	l a constant and a co	22µF	16WV	E1	

Remarks:

Capacitor: El... Electrolytic, Ce... Ceramic, My... Mylar, PP... Polypropylene Resistor: Rd... Carbon, Rm... Metal Film

: 120V for North America (With C.A.T. Switch)

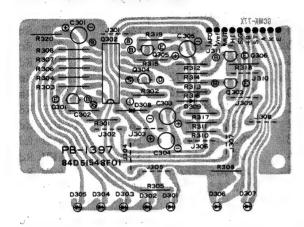


PB-1377 Parts List

					<u> </u>	
Symbol No.	Stock No.	Descri	otion	Symbol No.	Stock No.	Description
	stor & IC)				06T51108F03	33 1/2WV Rm
	48T51118F01	Tr, 2SA1015Y		R812a,b	06T51108F03	33 1/2WV Rm
Q802	51T51114F01-0	IC, STK-30			06S44593P93	15K 1/4WV Rd
	48T43525F02				06S44593P93	15K 1/4WV Rd
	48T43525F02				06S44593P53	330 1/4WV Rd
	48T51118F01	Tr, 2SA101	L5Y		06S44593P53	330 1/4WV Rd
	48T43525F02	Tr, 2SC181	Ĺ5Y		06S44593P87	8.2K 1/4WV Rd
	48T51118F01	Tr, 2SA101	L5Y	R818a,b	06S44594P06	47K 1/4WV Rd
		Tr, 2SC223	35Y	R819a,b	06S44593P87	8.2K 1/4WV Rd
		Tr, 2SA965	ΣY	R820a,b	06S44593P71	1.8K 1/4WV Rd
Q810a,b		Tr, 2SC257	77Y		06S44593P53	330 1/4WV Rd
Q811a,b	48T51070F01	Tr, 2SA110		R822a,b	06S44593P69	1.5K 1/4WV Rd
Q812	48T51121F01	Tr, 2SA992	2E	R823a,b	06T51108F08	2.2K 1/4WV Rm
Q813	48T51121F01	Tr, 2SA992			06T51108F05	150 1/2WV Rm
Q814	48T51121F01	Tr, 2SA992		R825a,b	06T51107F01	0.22 2WV Rc
Q815	48T51119F01	Tr, 2SA965		R826a,b	06S44593P17	10 1/4WV Rd
Q816	48T43525F02	Tr, 2SC181		R827a,b	06T51108F02	10 1/2WV Rm
Q817	48T42620F02	Tr, 2SD880	Ϋ́	R830	06T51108F04	47 1/2WV Rm
(Diode)		<u></u>	·	R831	06S44594P16	120K 1/4WV Rd
	48T51117F01	1S1555	Silicon	R832	06S44593P65	1K 1/4WV Rd
	48T51117F01	1S1555	Silicon	R833	06S44593P89	10K 1/4WV Rd
	48T51117F01	1S1555	Silicon	R834	06S44594P26	330K 1/4WV Rd
	48T51117F01	1S1555	Silicon	R835	06S44594P06	47K 1/4WV Rd
D805	48T51115F01	S3V20	Silicon	R836	06S44593P89	10K 1/4WV Rd
D806	48T51115F01	S3V20	Silicon	R837	06S44593P89	10K 1/4WV Rd
D807	48T51115F01	S3V20	Silicon	R838	06S44593P97	22K 1/4WV Rd
D808	48T51115F01	S3V20	Silicon	R839	06S44594P14	100K 1/4WV Rd
D809	48T40477U01	1N4003	Silicon	R840	06S44593P65	1K 1/4WV Rd
D810	48T40477U01	1N4003	Silicon	R841	06T51108F06	390 1/2WV Rm
D811	48T40150U77	HZ18-2	Zener	R842	06T51108F19	150 2WV Rm
D812	48T40150U86	HZ24-2	Zener	R843	06T51108F19	150 2WV Rm
D813	48T40150U31	HZ6B-1	Zener	R844	06S44593P63	820 1/4WV Rd
D815	48T40150U86	HZ24-2	Zener	R845	06S44593P63	820 1/4WV Rd 1.8K 1/4WV Rd
D817	48T51116F01	S1VB10	Bridge	R846	06S44593P71	
	le Resistor) 18T51109F01-0	10004 2	Loudness	R847	06S44593P89	
	18T51111F01-0			R848	06S44593P89	10K 1/4WV Rd 270 1/2WV Rm
VR802 VR803a,b	18C42061J15-B		Semi-Fixed	R852	06T51108F22 06S40150T65	1K 1/4WV Rd
	18C42061J13-B		Semi-Fixed			IK 1/4WV Rd
VR804a,b VR805	18T51112F01-0		Bass		08S40656F04	1800pF 50WV My
VR806	18T51112F01-0		Treble		08S40656F19	0.033µF 50WV My
(Coil)	10131112101-0	JORG X 2	TICDIC		21S40655F23	100pF Ce
	24T51105F01-0	Coil Chol	 Се		23T51236F04	0.47µF 50WV E1 LR
(Termina		0011, 01101			21S40655F28	270pF Ce
(TCTHITH)	09T51101F01-0	Terminal	SP	1	21S40655F25	150pF Ce
(Jack)	103131101101	I CI MILITUIL)			23T51235F03	1µF 50WV E1
(ouch)	09T51106F01-0	Jack, HP			23T51234F37	47µF 16WV E1
(Resist		rodott, iii			08S40805F22	0.04µF Ce
	06S44593P71	1.8K 1	/4WV Rd		21S40655F30	470pF Ce
R802a,b	2.252		/4WV Rd		21S40655F30	470pF Ce
R803a,b	A contract of the contract of		/4WV Rd	1	21S40655F20	56pF Ce
	06D44333163		/2WV Rd		21S40655F17	33pF Ce
	06S44593P89		/4WV Rd		08T51104F01	15pF My
	C6S44593P67		/4WV Rd		08S40656F11	6800pF 50WV My
	06S44594P08		/4WV Rd	11	08S40656F19	0.033 PF 50WV My
	06S44593P57		/4WV Rd		08S44503P23	0.068µF 50WV My
	06S44593P85	As a	/4WV Rd		08S40656F08	3900pF 50WV My
	06S44593P69		/4WV Rd	11	08S40656F17	0.022 \(\mathbb{F}\) 50WV My
1.01.04,0	1000, 1000	1	, ,,,, 100	COTSA,D	1 T TO COOP TO COOP	U.UZZEE JOWY FIY

Symbol Symbol Description Description Stock No. Stock No. No. No. 50WV E1 50WV E1 23T51234F56 220µF C820a,b 23T51235F13 4.7µF C834 16WV E1 $47 \mu F$ 50WV E1 C821a,b 23T51235F24 22µF C835 23T51235F41 50WV My 0.01uF 500WV Ce C822a,b 08S40656F21 0.047µF C836 08T51103F01 C823a,b 08S40805F22 0.04µF 50WV Ce C837 23T51234F54 220uF 25WV E1 35WV E1 08T43867F01 0.01µF 250WV Ac C838 23T51234F79 1000µF C826 16WV E1 100µF 250WV Ac 23T51235F44 C827 08T43867F01 0.01µF C839 10WV E1 50WV E1 C840 23T51235F37 47µF 23T51102F01 6800µF C828 6800µF 220µF 16WV E1 23T51102F01 50WV E1 C841 23T51234F53 C829 10WV E1 C830a,b 23T51235F19 10µF 50WV E1 C842 23T51235F47 220µF 35WV E1 470µF 23T51235F19 10µF 50WV E1 C843 23T51234F71 C831 $220 \mu F$ 25WV E1 C844 23T51234F54 C832 21C45322G31 0.01µF Ce C845 23T51235F25 $22\mu F$ 16WV E1 4.7µF 50WV E1 23T51235F13 C833

PB-1397 Parts List

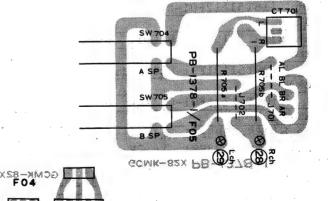


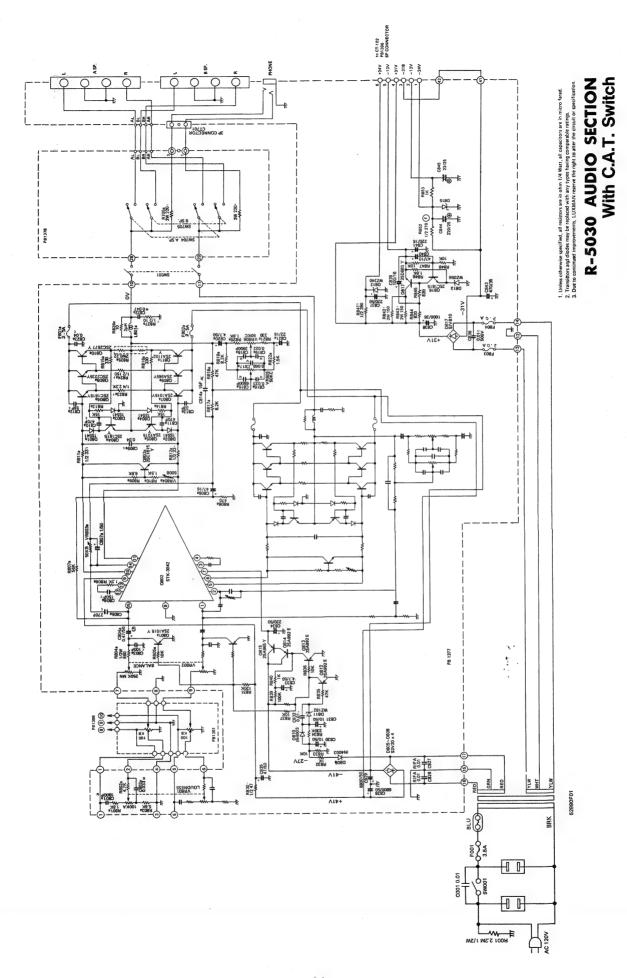
Symbol No.	Stock No.	Description						
(Diode & LED)								
D301	48T51540F01	LN26RP (red) LED						
D302	48T51540F01	LN26RP (red) LED						
D303	48T51540F01	LN26RP (red) LED						
D304	48T51540F01	LN26RP (red) LED						
D305	48T51540F01	LN26RP (red) LED						
D306	48T51540F01	LN26RP (red) LED						
D307	48T51540F01	LN26RP (red) LED (U)						
D308	48T51881F01	DS442-BT Silicon						
D309	48T51881F01	DS442-BT Silicon						
(Capacit	or)							
C301	23T51235F03	1μF 50WV E1						
C302	08S44505P63	0.022µF 16WV Ce						
C303	23T51235F08	3.3µF 50WV E1						
C304	23T51235F31	33µF 16WV E1						
C305	23T51235F08	3.3μF 50WV E1						
DD 12	78-1 Part	e Liet						
PB-13	70-1 Fait	.s List						
Symbol Symbol	Stock No.	Description						
No.	BLOCK NO. Description							
(Switch								
	40T51534F04-0 SW., Push SUL2							
	(Resistor)							
R705a,b	06T51108F11	220 2WV Rm						

PB-1391 Parts List

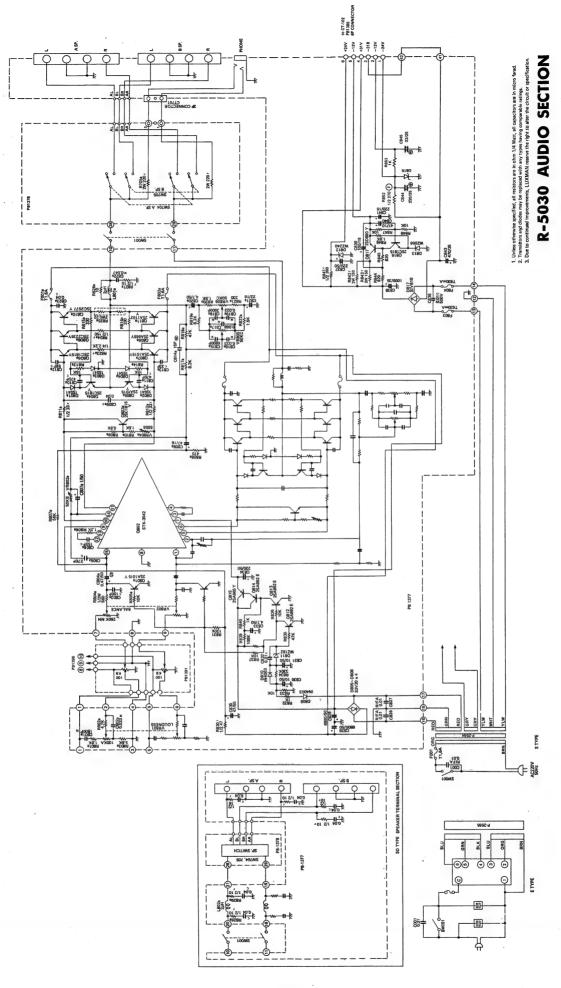
Symbol No.	Stock No.	Description
(Variab	le Resistor)	
VR901	18T51110F01-0	100KB x 2 Volume

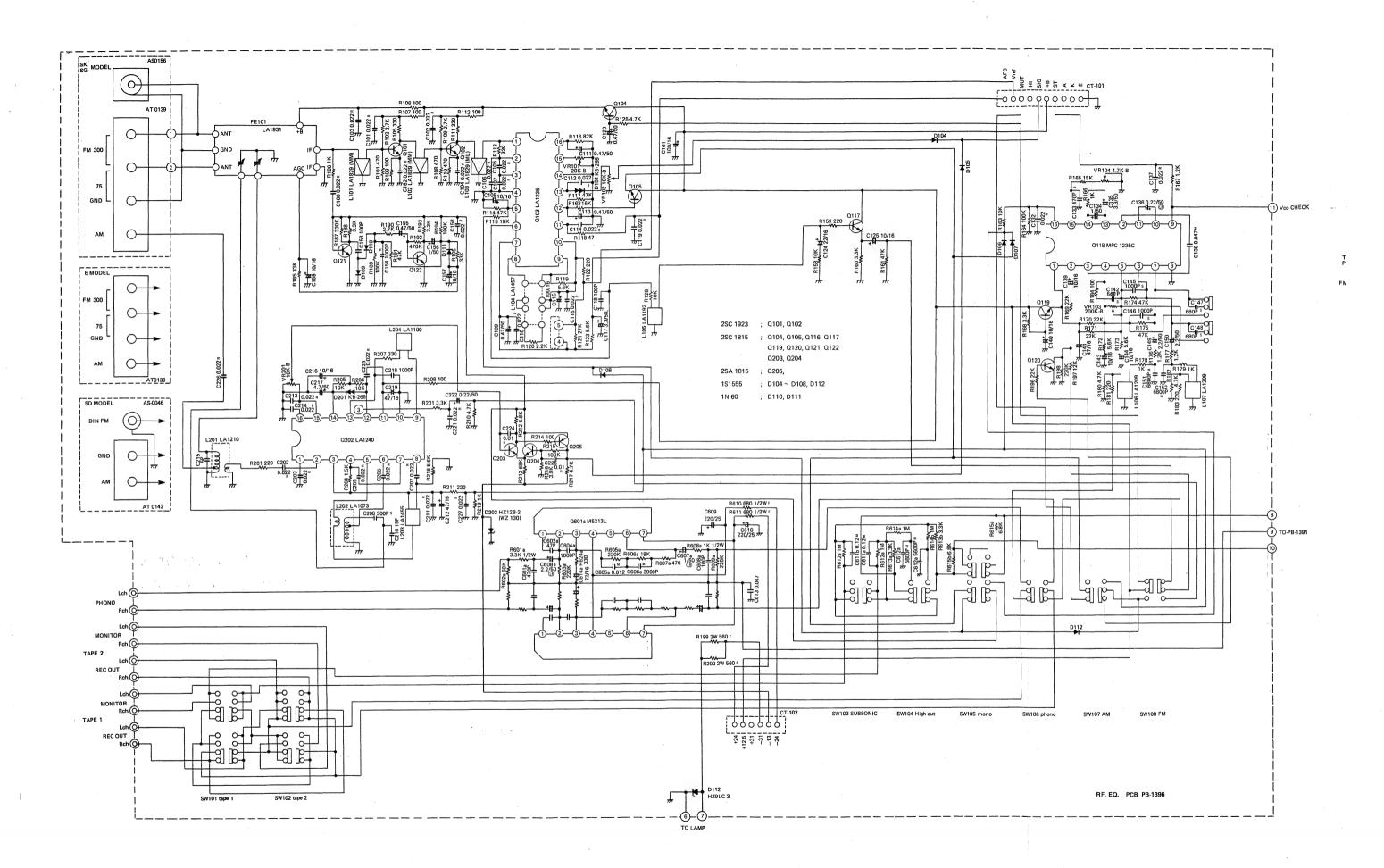
Symbol No.	Stock No.	Description
	stor & IC & FE	r) <u> </u>
Q301	48T43525F02	Tr, 2SC1815Y
Q302	51T51541F01-0	IC, BA685
Q303	48T43525F02	Tr, 2SC1815Y
Q304	48T51539F01	FET, 2SK117Y
Q305	48T43525F02	Tr, 2SC1815Y
Q306	48T43525F02	Tr, 2SC1815Y
(Resist	or)	
R301	06344594P04	39K 1/4WV Rd
R302	06S44593P57	470 1/4WV Rd
R303	06S44593P67	1.2K 1/4WV Rd
R304	06S44593P67	1.2K 1/4WV Rd
R305	06S44594P06	47K 1/4WV Rd (U)
R306	06S44593P67	1.2K 1/4WV Rd
R307	06S44593P67	1.2K 1/4WV Rd
R308	06S44593P67	1.2K 1/4WV Rd
R309	06S44593P89	10K 1/4WV Rd
R310	06S44593P81	4.7K 1/4WV Rd
R311	06S44594P06	47K 1/4WV Rd
R312	06S44593P81	4.7K 1/4WV Rd
R313	06S44594P06	47K 1/4WV Rd
R314	06S44594P06	47K 1/4WV Rd
R315	06S44594P06	47K 1/4WV Rd
R316	06S44594P30	470K 1/4WV Rd
R317	06S44594P06	47K 1/4WV Rd
R318	06S44593P89	10K 1/4WV Rd
R319	06S44594P06	47K 1/4WV Rd
R320	06S44594P06	47K 1/4WV Rd

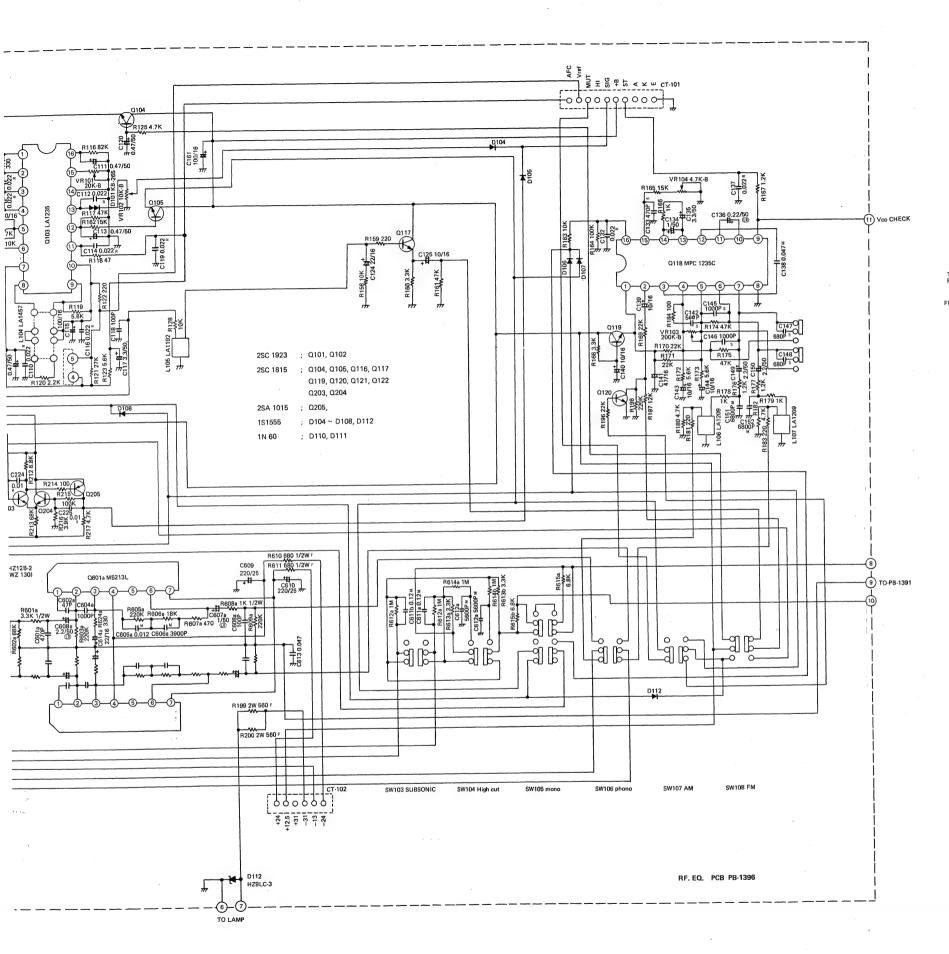


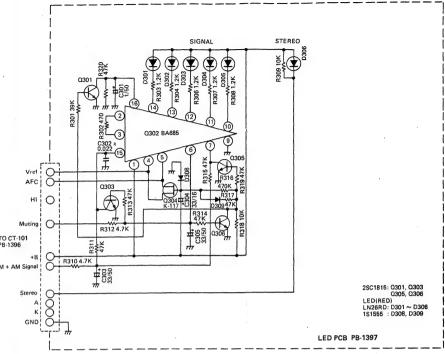












- NOTES

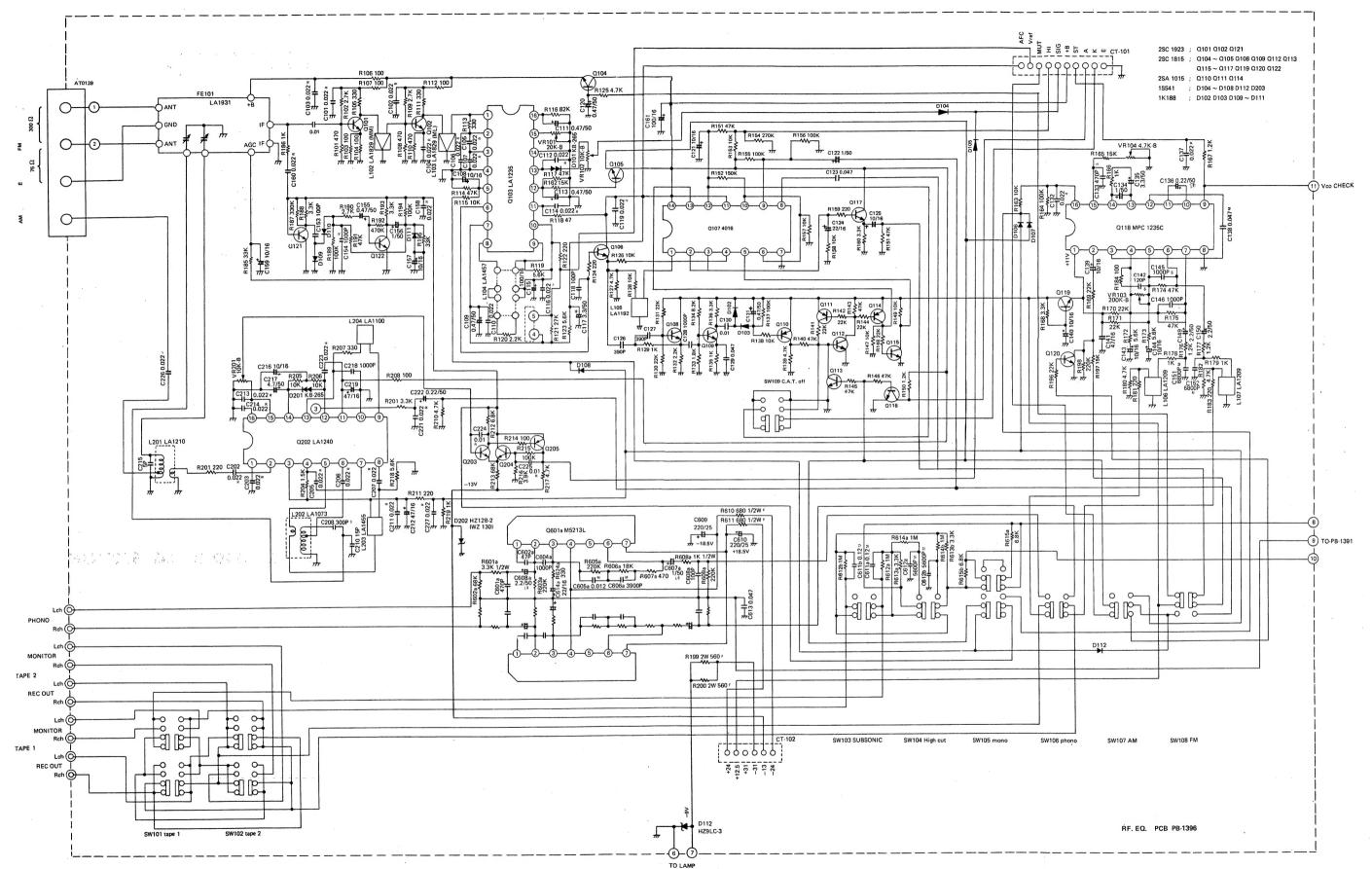
 1. ALL RESISTORS IN OHMS, K: 10³, M: 10⁶

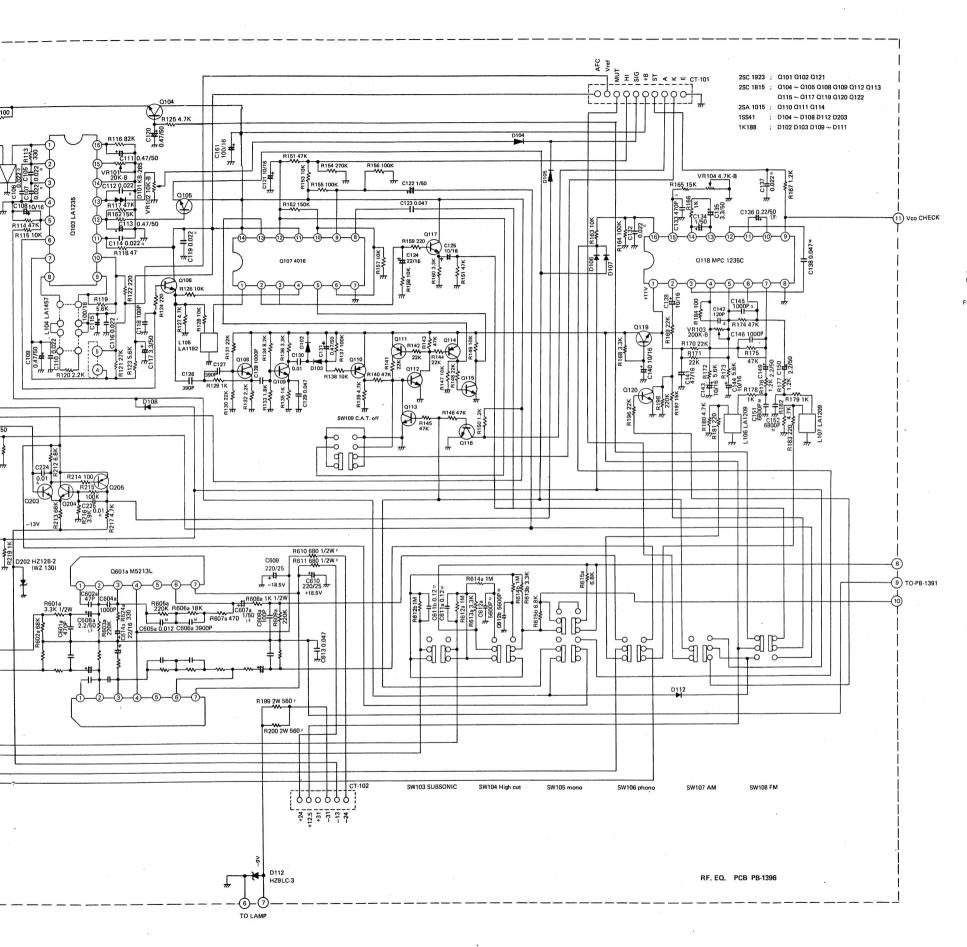
 2. ALL CAPACITORS IN FARAD μ : 10 ⁻⁶, P: 10⁻¹²

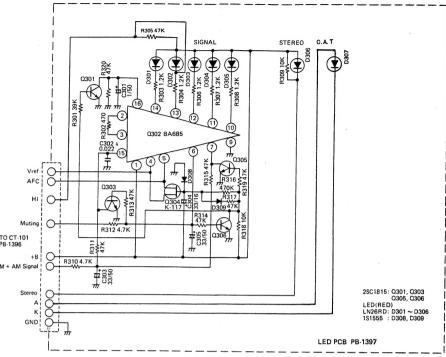
 3. TRANSISTORS AND DIODES MAY BE REPLACED WITH ANYTYPES HAVING COMPARABLE RATINGS.

 4. DUE TO CONTINUED RESERCH FOR IMPROVEMENT LUX RESERVES THE RIGHT TO ALTER THE CIRCUITS AND SPECIFICATIONS WITHOUT NOTICE

R-5030 RF, EQ SECTION







- NOTES

 1. ALL RESISTORS IN OHMS, K: 10³, M: 10°

 2. ALL CAPACITORS IN FARAD µ: 10⁻⁴, P: 10⁻¹²

 3. TRANSISTORS AND DIODES MAY BE REPLACED WITH ANYTYPES HAVING COMPARABLE RATINGS.

 4. DUE TO CONTINUED RESERCH FOR IMPROVEMENT LUX RESERVES THE RIGHT TO ALTER THE CIRCUITS AND SPECIFICATIONS WITHOUT NOTICE

R-5030 RF, EQ SECTION (With C.A.T. Switch)

Specifications With C.A.T. Switch

Weight:

Audio Section Power Output: 35W minimum continuous per channel both channels driven into 8 ohms with no more than 0.03% total harmonic distortion. Rated I.M.: No more than 0.03% (8 ohms, 35W/ch, 60Hz: 7kHz = 4 : 1)Frequency Response: 10Hz - 70kHz (+1dB) 2.2mV (phono) Input Sensitivity: 150mV (monitor) Input Impedance: 50k ohms (phono) 35k ohms (monitor) Phono Overload Voltage: 150mV S/N Ratio: 77dB (phono, IHF-A weighted, 5mV) 102dB (monitor, IHF-A weighted) Residual Noise: 0.5 mV+7dBTone Control: Bass at 100Hz -10dB +7dB Treble at 10kHz -10dBFilters: Subsonic 30Hz (6dB/oct.) High Cut 7kHz (6dB/oct.) Crosstalk: 70dB (monitor at 1kHz) Loudness Control: +8dB at 100Hz, +7.5dB at 10kHz (Loudness control: max., VR: -30dB) FM Section Mono 10.3dBf (1.8 μ V) Usable Sensitivity: 50dB Quieting Sensitivity: Mono 14.8dBf (3.0 μ V) (50 μ sec) S/N Ratio at 65dBf: 82dB Muting Threshold: $3\mu V$ Frequency Response: (30Hz - 15kHz) (+1dB)Distortion at 65dBf: (stereo) (mono) 100Hz: 0.15% 0.2% 1kHz: 0.12% 0.2% 6kHz: 0.3% 0.3% Capture Ratio at 65dBf: 1.5dB Image Response Ratio: 55dB IF Response Ratio: 90dB AM Suppression Ratio: 60dB Stereo Separation: 42dB (100Hz) 48dB (1kHz), 42dB (10kHz) Spurious Response Ratio: 80dB Alternate Channel Selectivity: $65dB (\pm 400kHz)$ SCA Rejection Ratio: 60dB AM Section IHF Usable Sensitivity (1MHz): 500µV/m (loop ant.) Image Response Ratio at 1MHz: 45dB S/N Ratio: 58dB Distortion: 0.5% General $438(W) \times 384(D) \times 85(H)$ mm (17.5" x 15.4" x 3.4") Dimensions:

Net 7.7kgs (17.0 lbs.)

Specifications and appearance design subject to change without notice.



Specifications

Audio Section

Input Impedance:

38W minimum continuous per channel both channels Power Output:

driven into 8 ohms with no more than 0.04% total

harmonic distortion

No more than 0.04% Rated T.M.:

(8 ohms, 38W/ch, 60Hz: 7kHz = 4:1)

10Hz - 70Hz (+1dB) Frequency Response:

2.2mV (phono) Input Sensitivity: 150mV (monitor)

50k ohms (phono)

35k ohms (monitor)

Phono Overload Voltage:

77dB (phono, IHF-A weighted, 5mV) S/N Ratio:

102dB (monitor, IHF-A weighted)

0.5mV Residual Noise:

+7dRTone Control: at 100Hz Bass -10dB

> +7dBTreble -10dB at 10kHz

Subsonic 30Hz (6dB/oct.) Filters:

High Cut 7kHz (6dB/oct.)

Crosstalk: 70dB (monitor at 1kHz)

+8dB at 100Hz, +7.5dB at 10kHz Loudness Control:

(Loudness control: max., VR: -30dB)

FM Section

Mono 10.3dBf (1.8µV) Usable Sensitivity:

50dB Quieting Sensitivity: Mono 14.8dBf (3.0μV) (50 μsec)

82dB S/N Ratio at 65dBf: 3μ۷

Muting Threshold: (30Hz - 15kHz) (+1dB)

Frequency Response: Distortion at 65dBf: (mono) (stereo) 0.25% 100Hz: 0.15%

0.2% 0.12% 1kHz: 0.3% 0.3% 6kHz: 1.5dB Capture Ratio at 65dBf:

55dB Image Response Ratio: 90dB IF Response Ratio: AM Suppression Ratio: 60dB

42dB (100Hz) 48dB (1kHz), 32dB (10kHz) Stereo Separation:

Spurious Response Ratio: 80dB

(+400kHz) 79dB Alternate Channel Selectivity:

SCA Rejection Ratio: 60dB

60dB (40kHz dev. +300kHz) Adjacent Channel Selectivity:

AM Section

IHF Usable Sensitivity (1MHz): 500μV/m (loop ant.)

45dB Image Response Ratio at 1MHz: 58dB S/N Ratio: Distortion: 0.5%

General

 $438(W) \times 384(D) \times 85(H)$ mm $(17.5" \times 15.4" \times 3.4")$ Dimensions:

Net 7.7kgs (17.0 1bs.) Weight:

Specifications and appearance design subject to change without notice.

LUX CORPORATION, JAPAN

1-1, 1-CHOME, SHINSENRI-NISHIMACHI. TOYONAKA-SHI, OSAKA 565 PHONE: 06-834.0004 TELEX:5287106 LUXELE J

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